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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/081,515 | 02/21/2002 | Yun Ling | 42390P11896 | 9978 |

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EXAMINER

NGUYEN, PATRICIA T

| ART UNIT | PAPER NUMBER |
|----------|--------------|
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2817

DATE MAILED: 06/20/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/081,515

Applicant(s)

LING ET AL.

Examiner

Patricia T. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-19, 22, 23 and 25-30 is/are rejected.
- 7) ☐ Claim(s) 20, 21 and 24 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). ____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____ 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-14, 18, 19, 22, 23, 25, 28-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Kempf et al., U.S. Patent # 5,807,117.

Fig. 12 of Kempf et al. discloses an apparatus comprising: interconnect system 10 having female terminal 220 and male terminal 120 can be read as a combination digital signal and radio frequency connector; PCB 350 can be read as a radio frequency module board; the connection of interconnect system 10 can be read as a pin and receptacle connection; recesses of female terminal 220 having a tulip shape; connector body 110 and annular spring 250 can be read as a spring cage; connector body 210 can be read as a barrel.

Regarding claim 22, see spec. col. 5, lines 6-12.

The use of interconnect system 10 for connection to the motherboard is just an intended use for the apparatus and thus does not carry any patentable weight. (In fact, a system, col. 1. line 13, can be read as a motherboard.

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Claims 1-3, 7-9, 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Romerein et al., U.S. Patent # 5,828,272.

Figs. 3, 4, 14 of Romerein et al. discloses an apparatus comprising: In Fig. 14, connector having recesses DS1-DS7 (female portion) and probes DB1 –DB7 (male portion) can be read as a combination digital signal and radio frequency connector; motherboard 32 can be read as a motherboard; daughter board 67 can be read as a radio frequency module board; the connection between recesses DS1-DS7 and probes DB1 –DB7 can be read as a pin and receptacle connection; recesses DS1-DS7 having a tulip shape.

Regarding claim 22, see spec. col. 14, lines 28-37.

Claims 1-3, 7-9, 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Beloritsky et al., U.S. Patent # 6,099,322.

Figs. 1, 2, 7, 8 of Beloritsky et al. discloses an apparatus comprising: In Fig. 1, connector 9 having electrical contact 6 (female portion) and center contact 7 (male portion) can be read as a combination digital signal and radio frequency connector; circuit board 4 can be read as a radio frequency module board; the connection or connector 9 can be read as a pin and receptacle connection; electrical contact 6 having a tulip shape (see Figs. 7, 8).

The use of connector 9 for connection to the motherboard is just an intended use for the apparatus and thus does not carry any patentable weight.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 15-17, 26, 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kempf et al., U.S. Patent # 5,807,117.

Allowable Subject Matter

Claims 20, 21, 24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patents # 5,481,073 of Singer et al., # 5,417,578 of Mroczkowski et al, # 5,530,623 of Sanwo et al. contain some limitations of the claimed invention.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia Nguyen whose telephone number is (703) 308-1927.

The examiner can normally be reached on 6AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (703) 308-1927. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-0142 for regular communications and (703) 305-0142 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1927.

PTN

June 12, 2003

PATRICIA NGUYEN
PRIMARY EXAMINER

Patricia Nguyen